(1) $\Psi(\mathbf{r}, t)$

$\times \hat{U}_{r, \frac{\tau}{2}}$

(2) $\Psi\left(\mathbf{r}, t+\tau/2\right)$ → $\mathscr{F}$ → $\Psi^{'}\left(\mathbf{k}, t\right)$

$\times \hat{U}_{p, \tau}$

(3) $\Psi^{'}\left(\mathbf{r}, t+\tau/2\right)$ ← $\mathscr{F}^{-1}$ ← $\Psi^{'}\left(\mathbf{k}, t+\tau\right)$

$\times \hat{U}_{r, \frac{\tau}{2}}$

$\Psi(\mathbf{r}, t+\tau)$